

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE101716\  
 Data File : BE092462.D  
 Acq On : 17 Oct 2016 20:59  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Oct 18 00:59:04 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE092216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 22 18:25:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 11987    | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.95 | 136  | 57674    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.81 | 164  | 43154    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.58 | 188  | 83577    | 5.00 | ng    | 0.02     |
| 24) Chrysene-d12          | 21.75 | 240  | 118678   | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.11 | 264  | 96235    | 5.00 | ng    | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.68  | 112  | 964      | 0.45 | ng    | 0.00     |
| 5) Phenol-d6                | 7.36  | 99   | 1270     | 0.40 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.36  | 82   | 1436     | 0.48 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 16.32 | 330  | 438      | 0.44 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 13.45 | 172  | 4741     | 0.46 | ng    | 0.00     |
| 26) Terphenyl-d14           | 20.17 | 244  | 6664     | 0.45 | ng    | 0.00     |

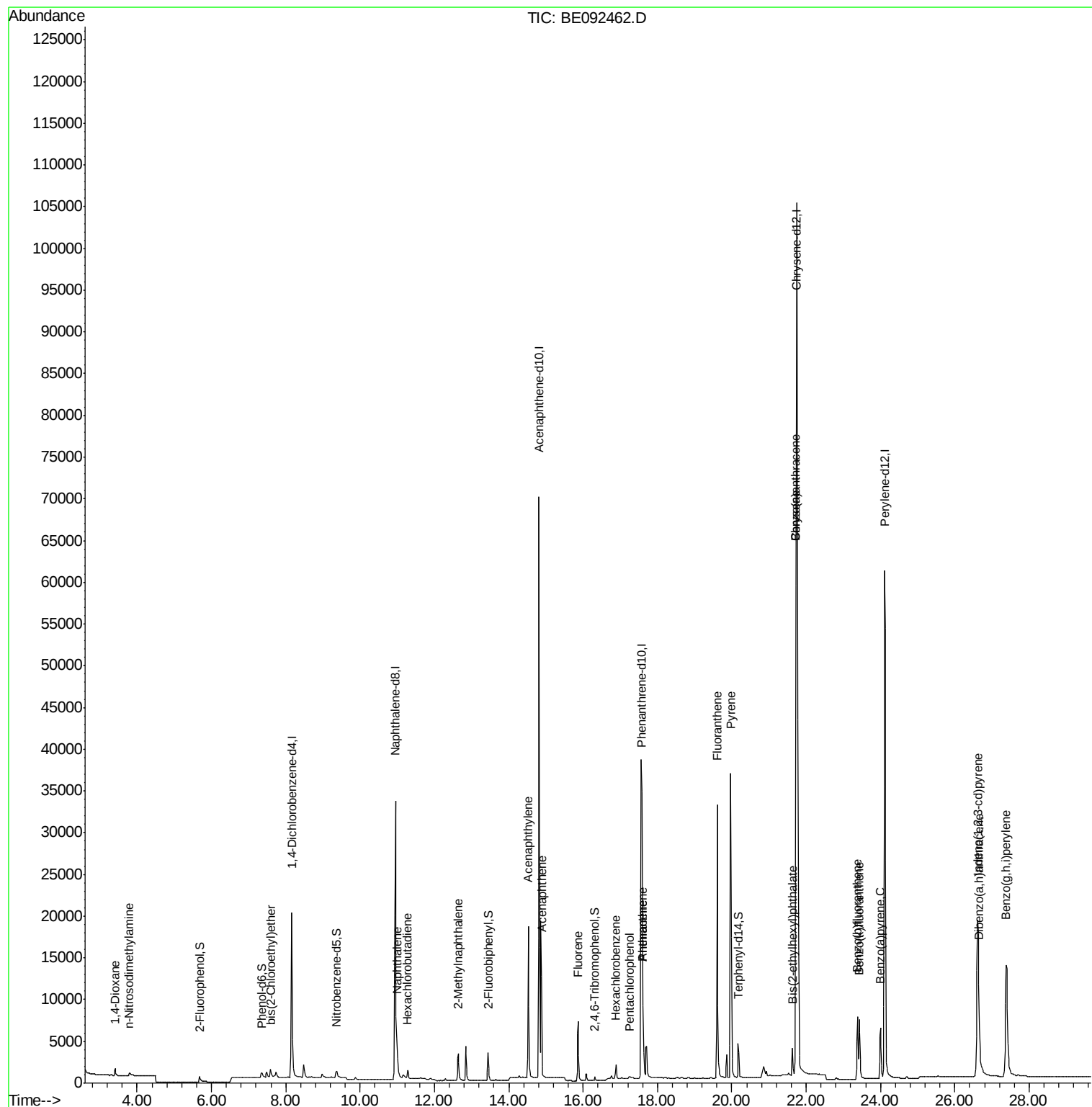
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane                 | 3.41  | 88   | 658      | 0.41 | ng    | # 92   |
| 3) n-Nitrosodimethylamine      | 3.78  | 42   | 651      | 0.52 | ng    | # 94   |
| 6) bis(2-Chloroethyl)ether     | 7.59  | 93   | 1148     | 0.45 | ng    | 97     |
| 9) Naphthalene                 | 10.99 | 128  | 5589     | 0.45 | ng    | 97     |
| 10) Hexachlorobutadiene        | 11.28 | 225  | 841      | 0.43 | ng    | 100    |
| 11) 2-Methylnaphthalene        | 12.64 | 142  | 3670     | 0.44 | ng    | 92     |
| 15) Acenaphthylene             | 14.53 | 152  | 27077    | 0.43 | ng    | 100    |
| 16) Acenaphthene               | 14.88 | 154  | 4405     | 0.45 | ng    | 97     |
| 17) Fluorene                   | 15.87 | 166  | 5397     | 0.43 | ng    | 98     |
| 19) Hexachlorobenzene          | 16.89 | 284  | 1815     | 0.51 | ng    | # 63   |
| 20) Pentachlorophenol          | 17.26 | 266  | 366      | 0.45 | ng    | 98     |
| 21) Phenanthrene               | 17.60 | 178  | 9925     | 0.52 | ng    | # 95   |
| 22) Anthracene                 | 17.60 | 178  | 9801     | 0.53 | ng    | 98     |
| 23) Fluoranthene               | 19.61 | 202  | 42160    | 0.46 | ng    | 99     |
| 25) Pyrene                     | 19.97 | 202  | 49928    | 0.49 | ng    | 99     |
| 27) Benzo(a)anthracene         | 21.72 | 228  | 97808    | 0.85 | ng    | 92     |
| 28) Chrysene                   | 21.72 | 228  | 98598    | 0.93 | ng    | # 72   |
| 29) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 4332     | 0.44 | ng    | # 76   |
| 30) Indeno(1,2,3-cd)pyrene     | 26.62 | 276  | 44461    | 0.40 | ng    | 98     |
| 32) Benzo(b)fluoranthene       | 23.38 | 252  | 10639    | 0.46 | ng    | 99     |
| 33) Benzo(k)fluoranthene       | 23.43 | 252  | 11052    | 0.45 | ng    | 96     |
| 34) Benzo(a)pyrene             | 24.01 | 252  | 10233    | 0.45 | ng    | 99     |
| 35) Dibenzo(a,h)anthracene     | 26.65 | 278  | 9005     | 0.43 | ng    | 98     |
| 36) Benzo(g,h,i)perylene       | 27.38 | 276  | 38548    | 0.43 | ng    | 99     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 22 18:25:56 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

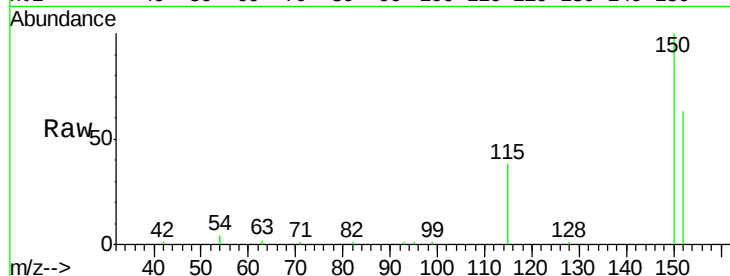
Tgt Ion:152 Resp: 11987

Ion Ratio Lower Upper

152 100

150 158.2 106.0 159.0

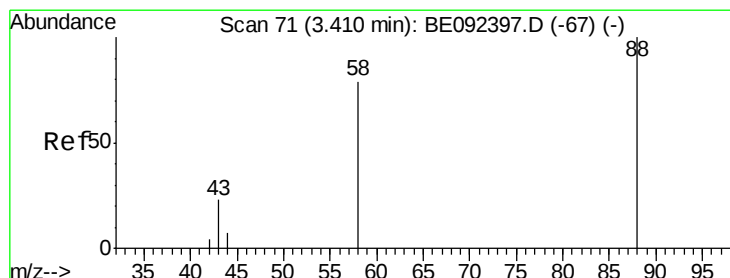
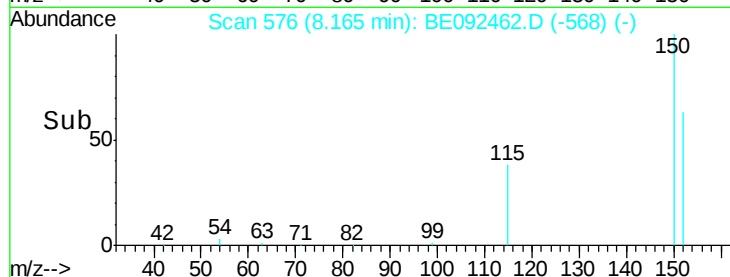
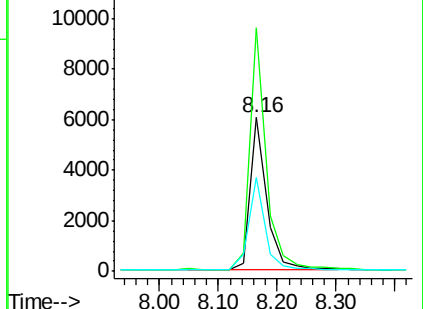
115 60.9 31.2 46.8#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.41 ng

RT: 3.41 min Scan# 71

Delta R.T. -0.01 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

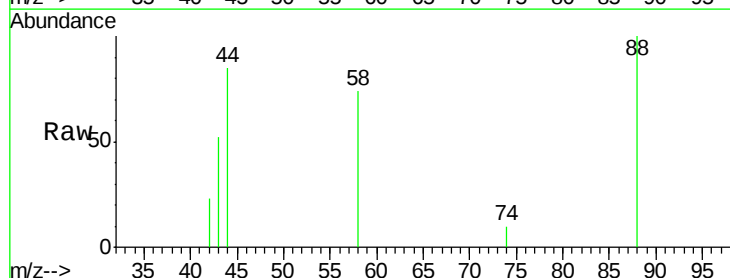
Tgt Ion: 88 Resp: 658

Ion Ratio Lower Upper

88 100

58 81.2 63.6 95.4

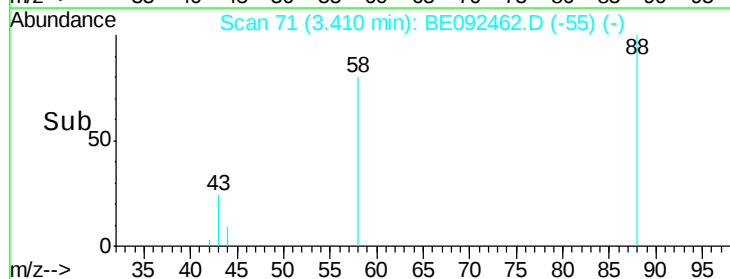
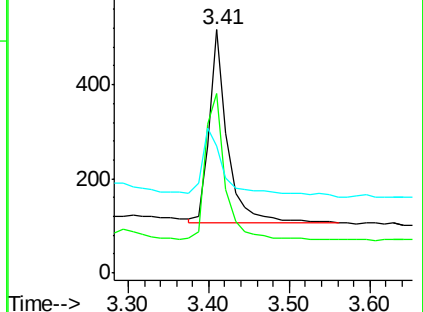
43 46.8 28.0 42.0#

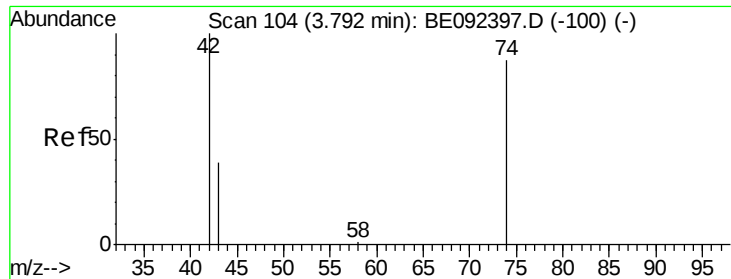


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.52 ng

RT: 3.78 min Scan# 103

Delta R.T. -0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

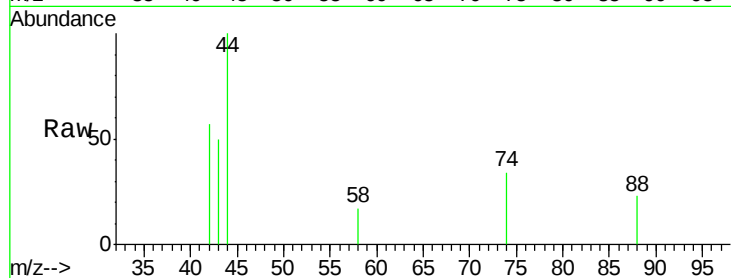
Tgt Ion: 42 Resp: 651

Ion Ratio Lower Upper

42 100

74 101.1 86.0 129.0

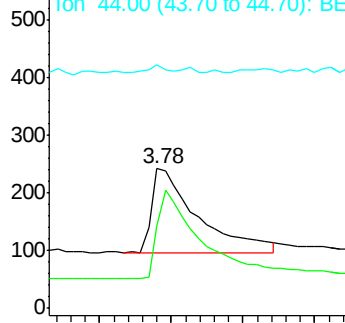
44 4.3 5.1 7.7#



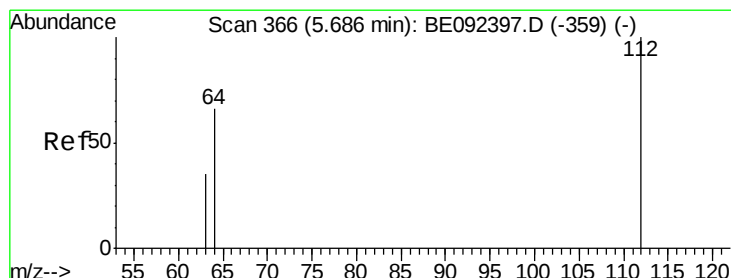
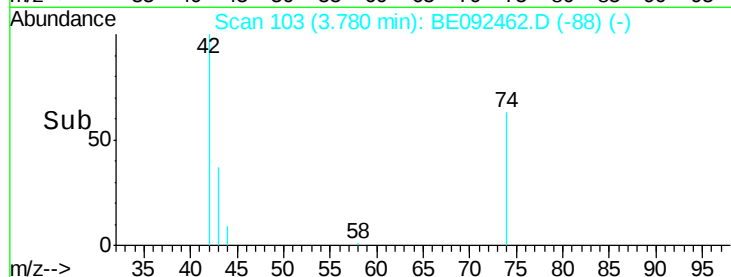
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 0.45 ng

RT: 5.68 min Scan# 365

Delta R.T. -0.01 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

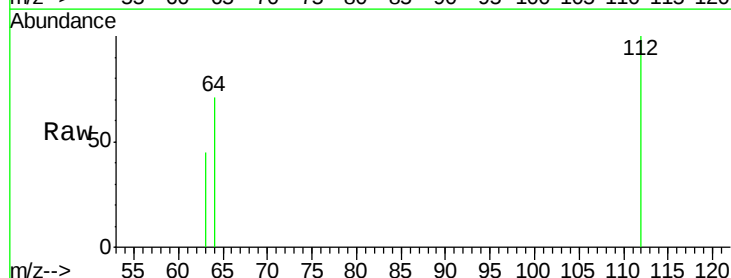
Tgt Ion: 112 Resp: 964

Ion Ratio Lower Upper

112 100

64 67.6 53.5 80.3

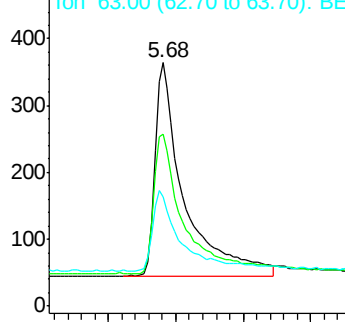
63 38.3 27.9 41.9



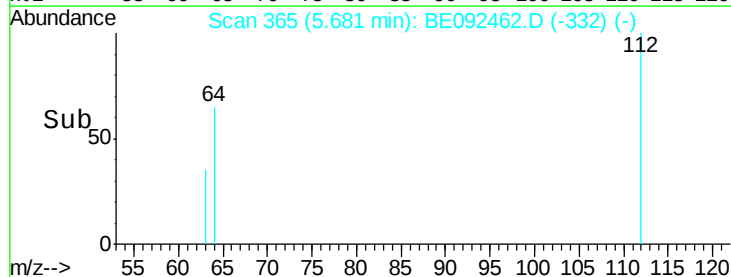
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.40 ng

RT: 7.36 min Scan# 541

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

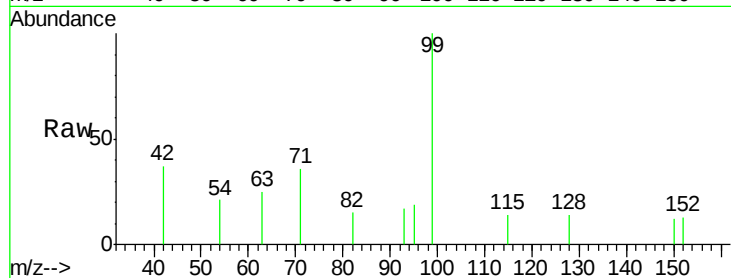
Tgt Ion: 99 Resp: 1270

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

71 0.0 30.6 45.8#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time-->

7.20 7.30 7.40 7.50

7.36

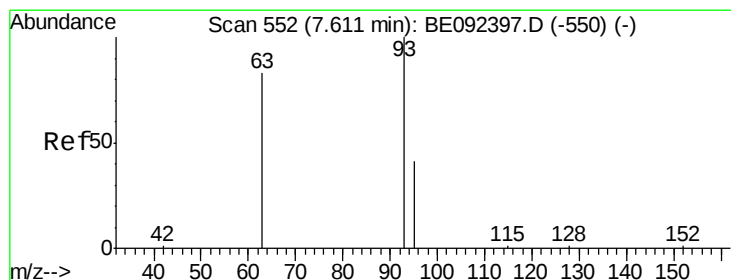
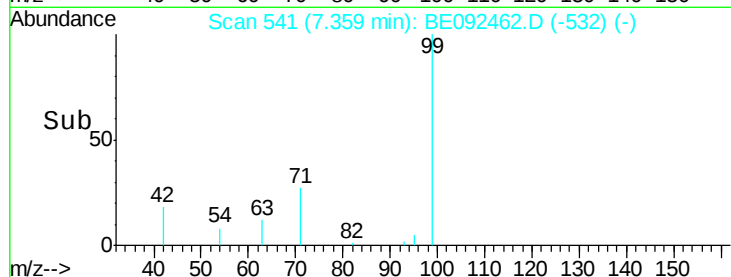
400

300

200

100

0



#6

bis(2-Chloroethyl)ether

Concen: 0.45 ng

RT: 7.59 min Scan# 551

Delta R.T. -0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

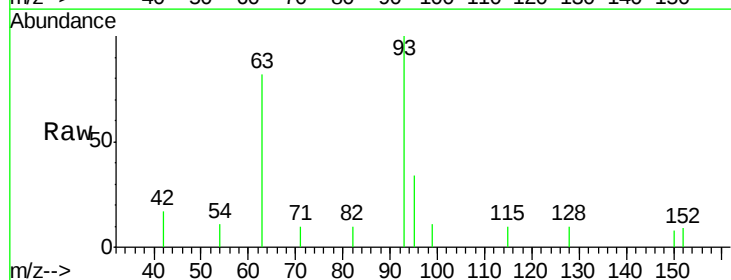
Tgt Ion: 93 Resp: 1148

Ion Ratio Lower Upper

93 100

63 90.1 71.6 107.4

95 35.7 24.0 36.0



Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0

Time-->

7.50 7.60 7.70

7.59

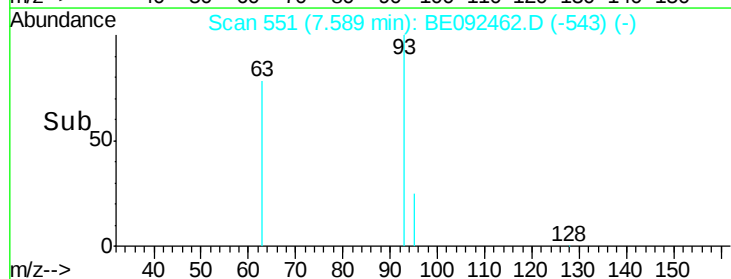
800

600

400

200

0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 57674

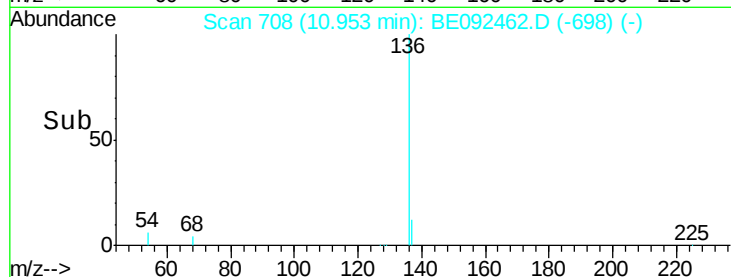
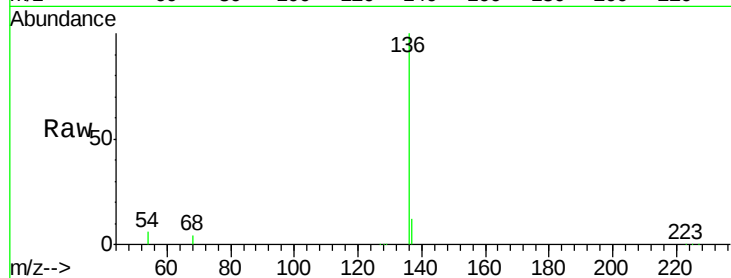
Ion Ratio Lower Upper

136 100

137 11.7 8.2 12.4

54 5.8 9.6 14.4#

68 4.5 6.7 10.1#



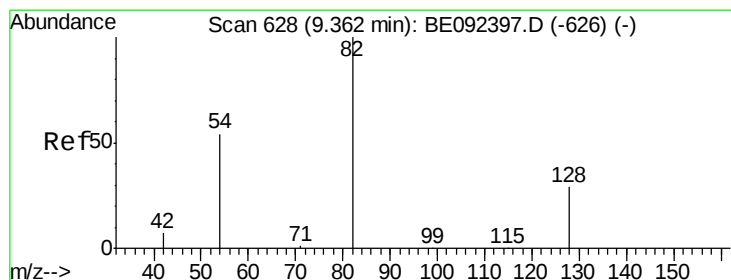
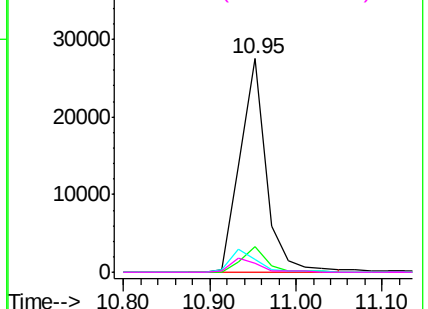
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.48 ng

RT: 9.36 min Scan# 628

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

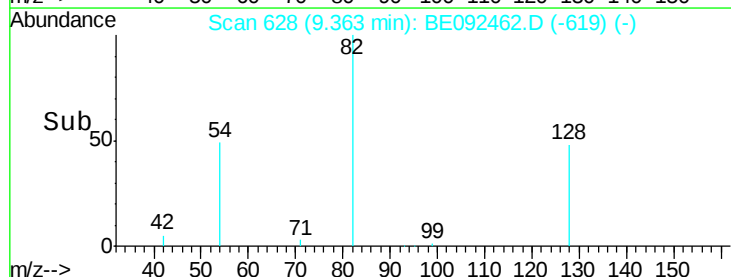
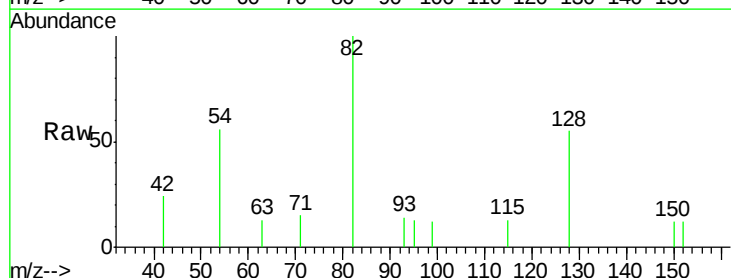
Tgt Ion: 82 Resp: 1436

Ion Ratio Lower Upper

82 100

128 54.8 39.0 58.4

54 56.0 44.8 67.2

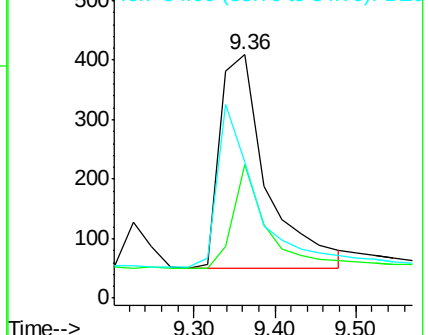


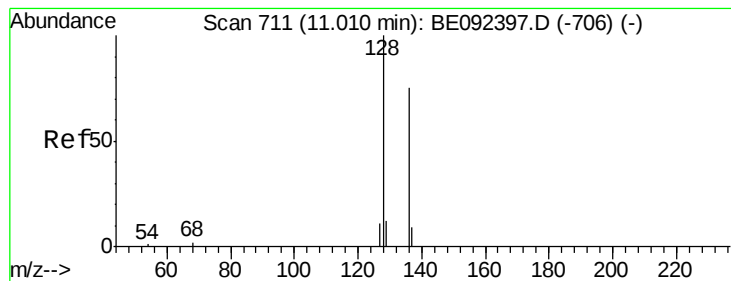
Abundance

Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.45 ng

RT: 10.99 min Scan# 710

Delta R.T. -0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

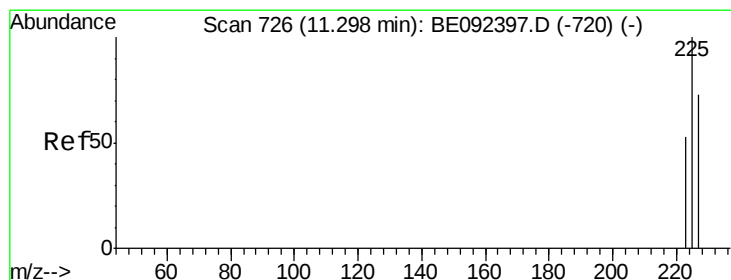
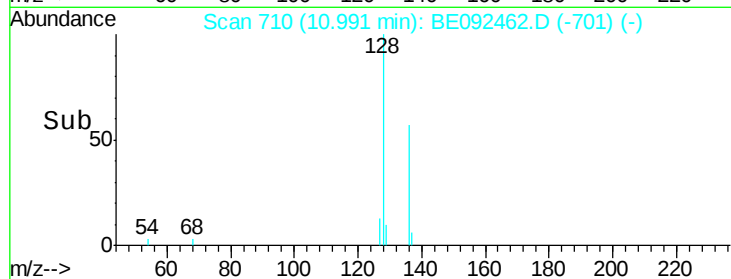
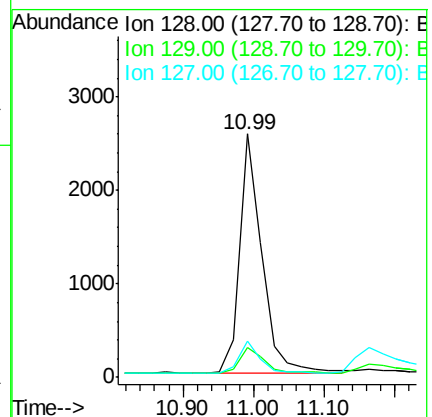
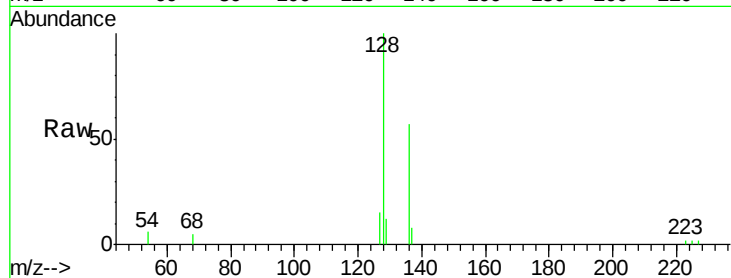
Tgt Ion:128 Resp: 5589

Ion Ratio Lower Upper

128 100

129 12.1 11.2 16.8

127 14.9 11.6 17.4



#10

Hexachlorobutadiene

Concen: 0.43 ng

RT: 11.28 min Scan# 725

Delta R.T. -0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

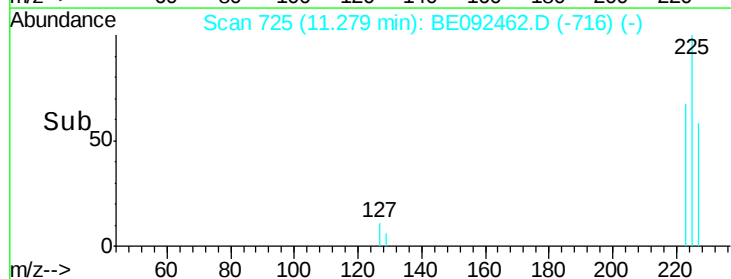
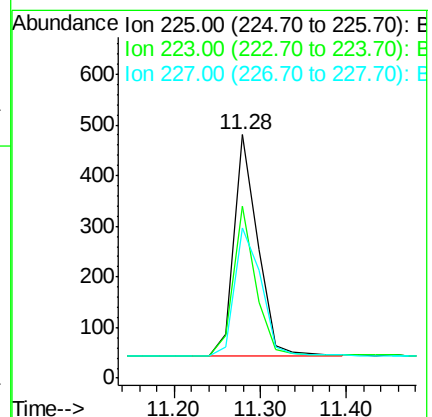
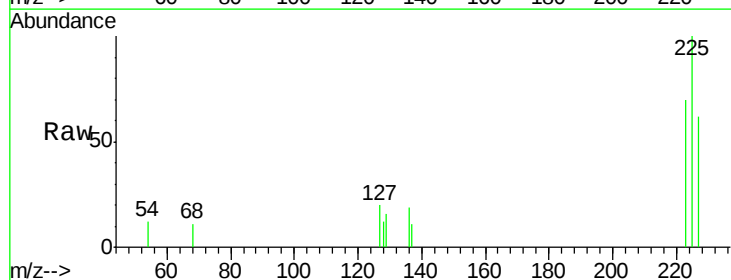
Tgt Ion:225 Resp: 841

Ion Ratio Lower Upper

225 100

223 63.5 50.6 76.0

227 64.4 51.4 77.0





#11

2-Methylnaphthalene

Concen: 0.44 ng

RT: 12.64 min Scan# 815

Delta R.T. -0.01 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

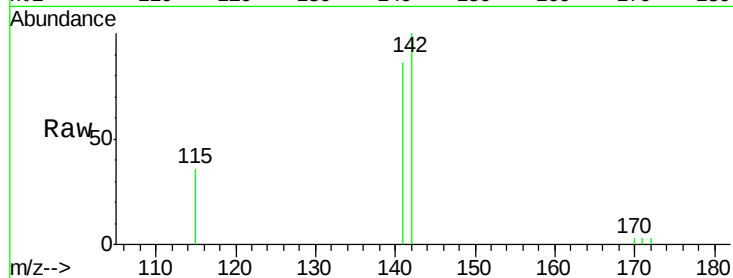
Tgt Ion:142 Resp: 3670

Ion Ratio Lower Upper

142 100

141 85.9 73.7 110.5

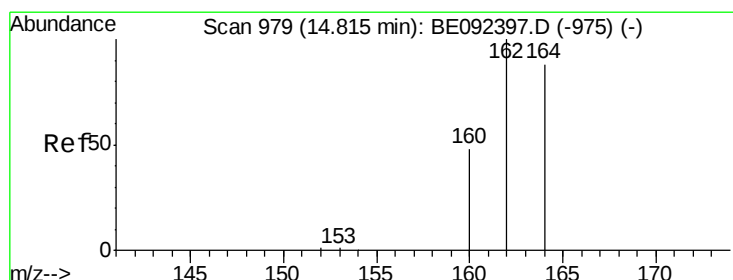
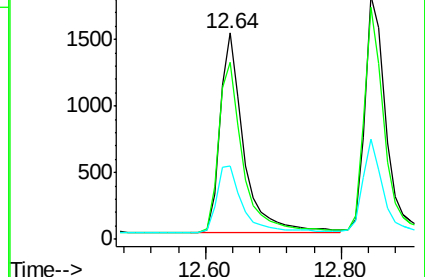
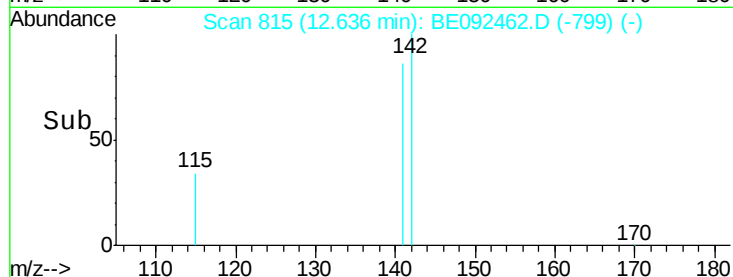
115 35.7 34.0 51.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.81 min Scan# 980

Delta R.T. -0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

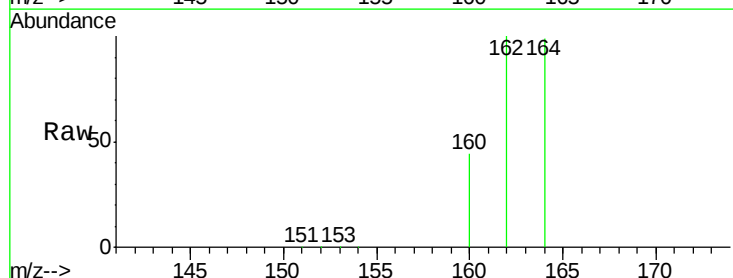
Tgt Ion:164 Resp: 43154

Ion Ratio Lower Upper

164 100

162 100.7 71.4 107.0

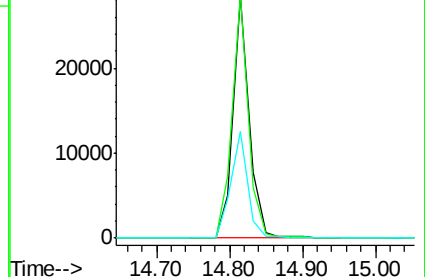
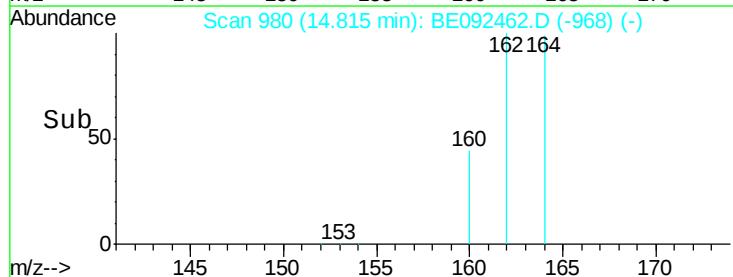
160 44.0 27.4 41.2#

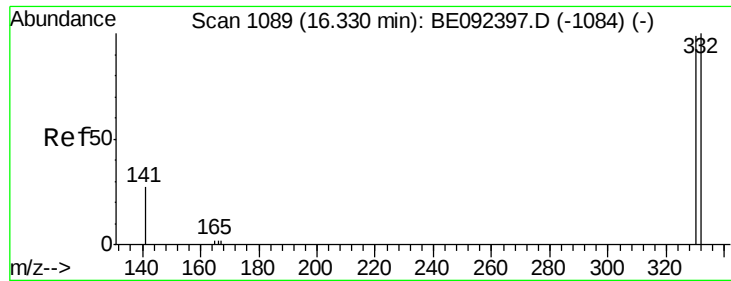


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

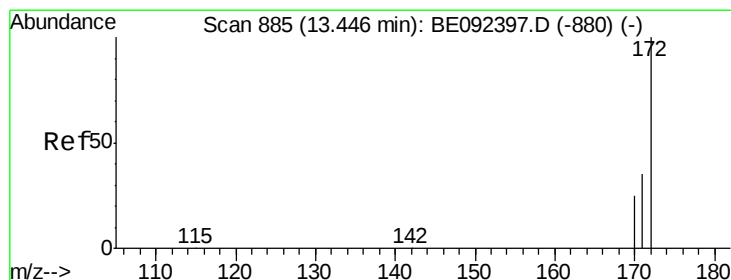
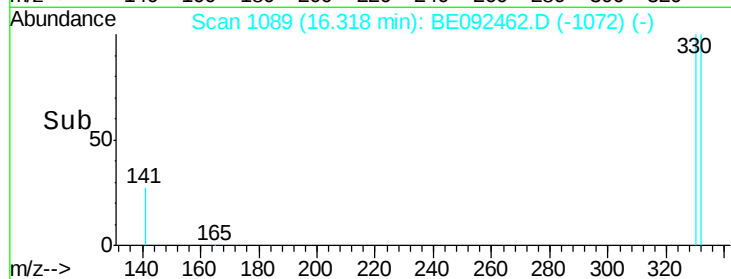
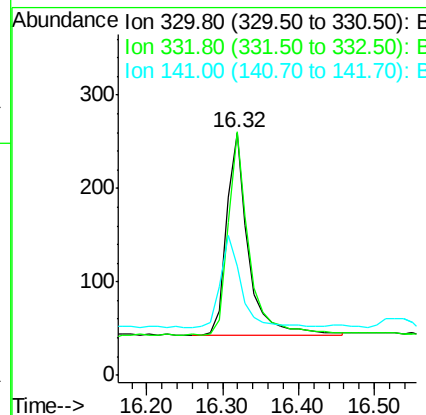
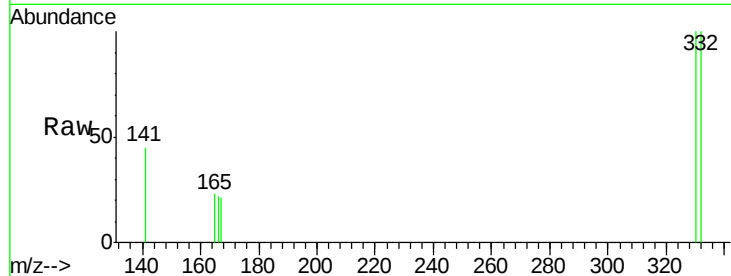




#13  
 2,4,6-Tribromophenol  
 Concen: 0.44 ng  
 RT: 16.32 min Scan# 1089  
 Delta R.T. 0.00 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

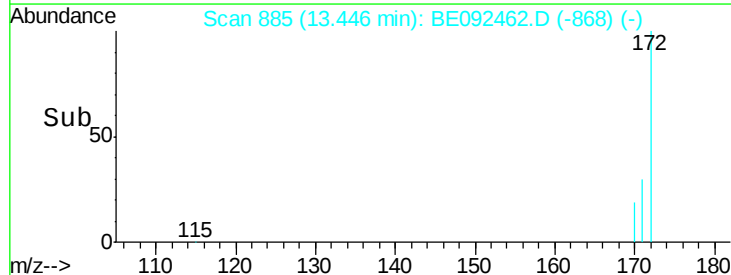
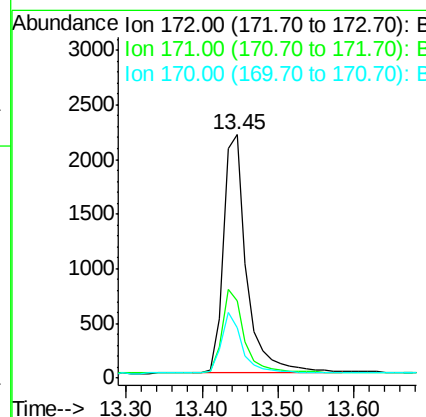
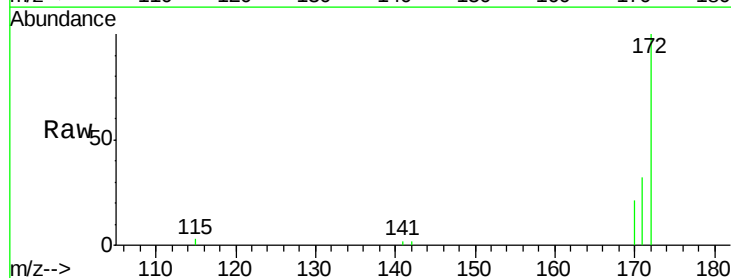
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

Tgt Ion: 330 Resp: 438  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 75.4 113.0  
 141 43.4 31.0 46.6



#14  
 2-Fluorobiphenyl  
 Concen: 0.46 ng  
 RT: 13.45 min Scan# 885  
 Delta R.T. 0.00 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

Tgt Ion: 172 Resp: 4741  
 Ion Ratio Lower Upper  
 172 100  
 171 31.9 30.1 45.1  
 170 20.6 21.8 32.6#

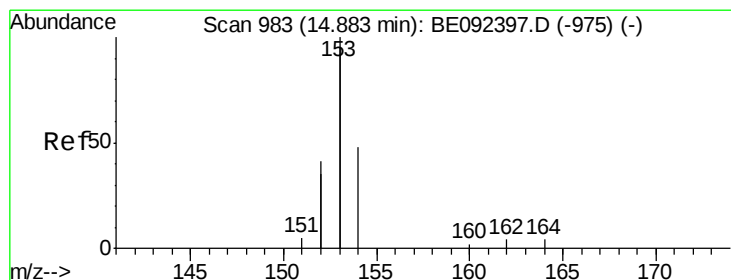
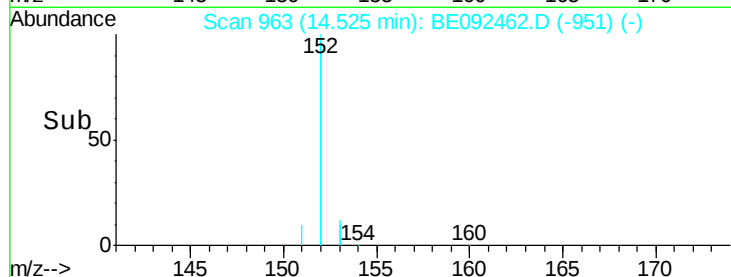
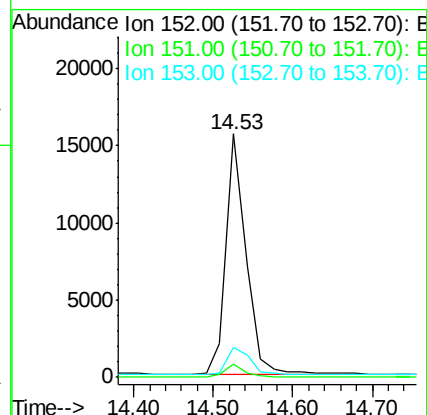
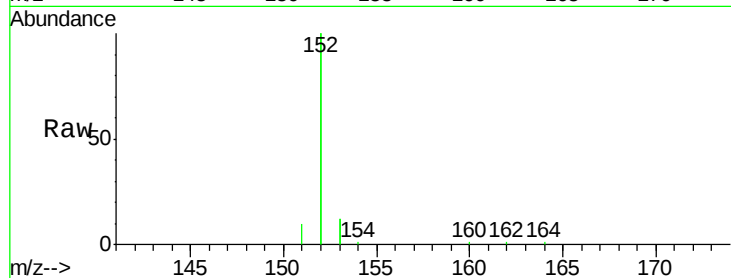




#15  
Acenaphthylene  
Concen: 0.43 ng  
RT: 14.53 min Scan# 963  
Delta R.T. -0.00 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

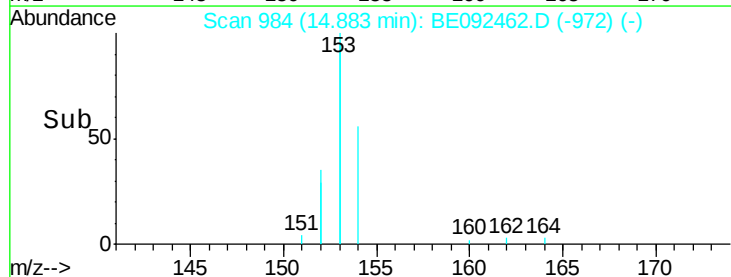
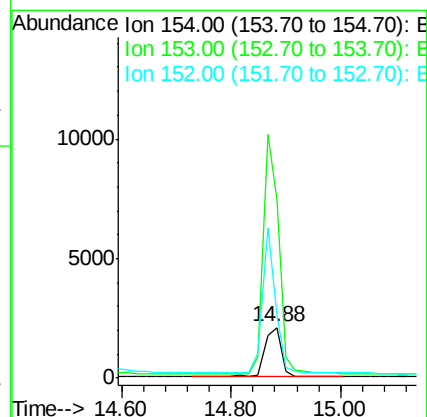
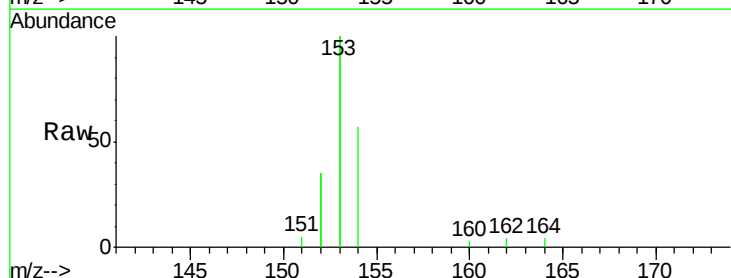
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:152 Resp: 27077  
Ion Ratio Lower Upper  
152 100  
151 4.8 3.9 5.9  
153 13.1 10.4 15.6



#16  
Acenaphthene  
Concen: 0.45 ng  
RT: 14.88 min Scan# 984  
Delta R.T. -0.00 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

Tgt Ion:154 Resp: 4405  
Ion Ratio Lower Upper  
154 100  
153 440.3 350.8 526.2  
152 225.1 171.1 256.7





#17

Fluorene

Concen: 0.43 ng

RT: 15.87 min Scan# 1050

Delta R.T. -0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

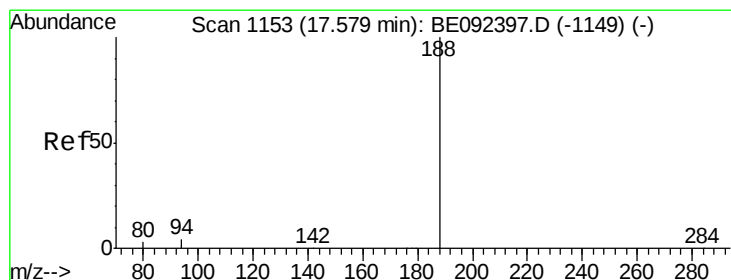
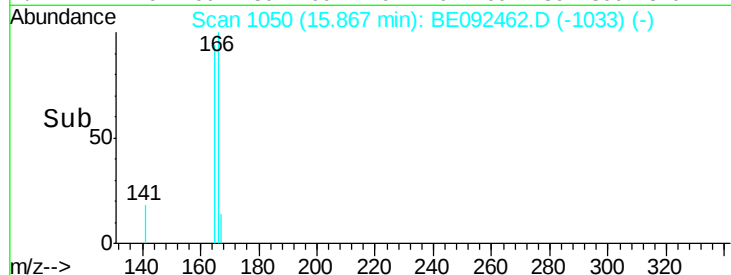
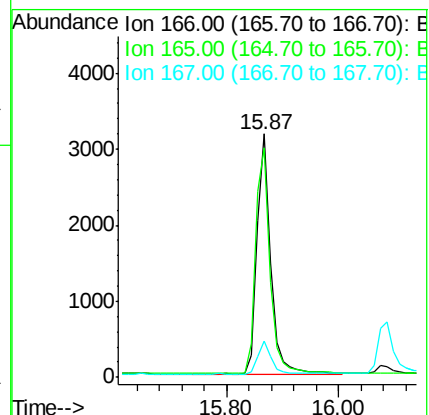
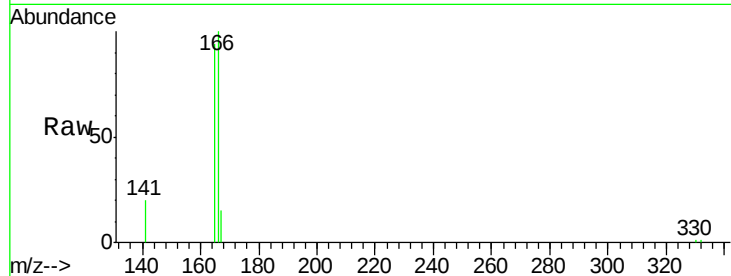
Tgt Ion:166 Resp: 5397

Ion Ratio Lower Upper

166 100

165 99.7 78.2 117.4

167 13.3 11.0 16.4



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

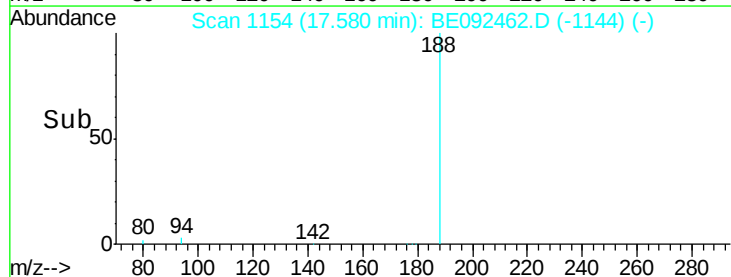
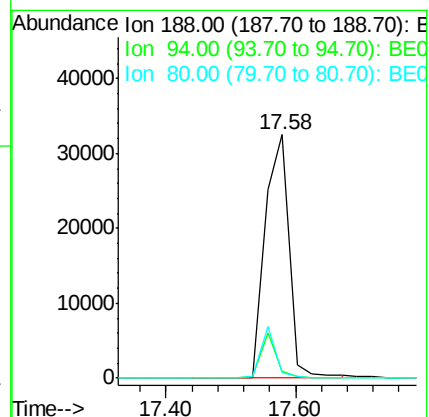
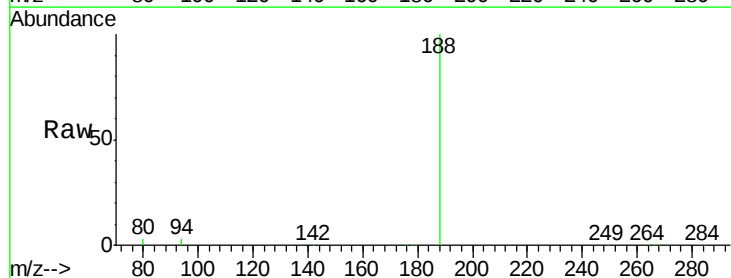
Tgt Ion:188 Resp: 83577

Ion Ratio Lower Upper

188 100

94 3.0 3.2 4.8#

80 2.5 2.6 3.8#

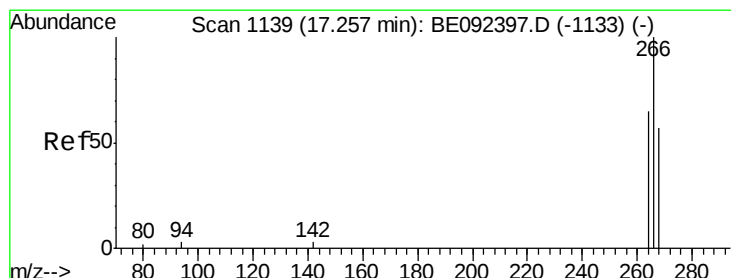
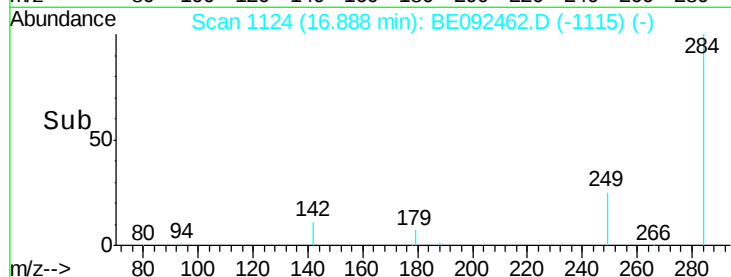
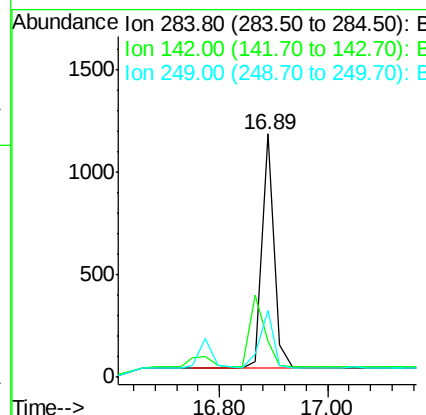
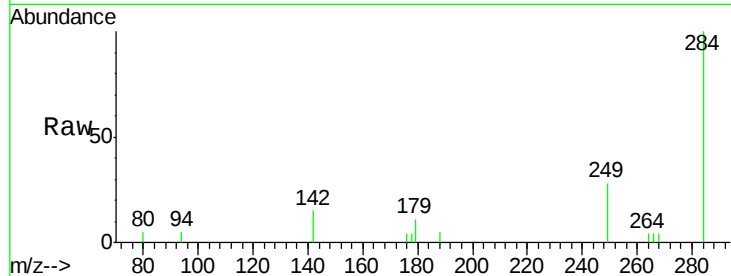




#19  
Hexachlorobenzene  
Concen: 0.51 ng  
RT: 16.89 min Scan# 1124  
Delta R.T. -0.00 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

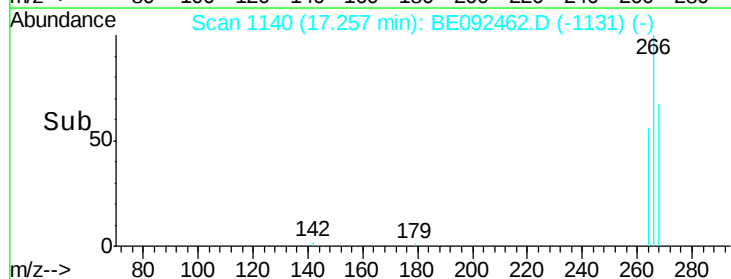
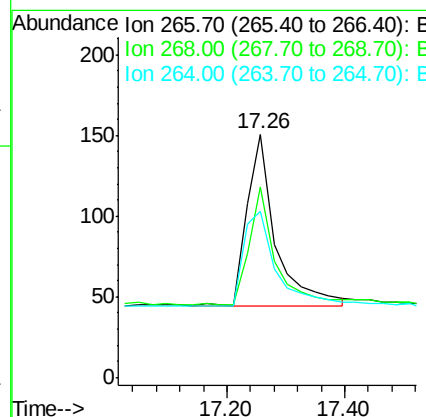
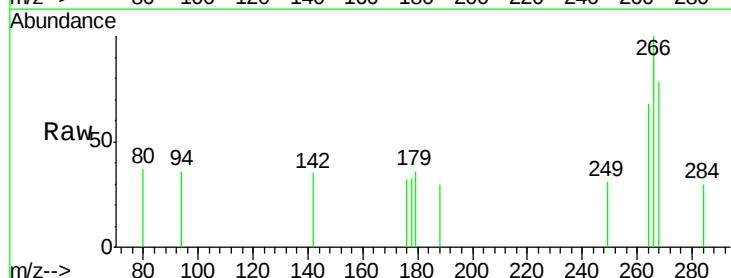
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 284 Resp: 1815  
Ion Ratio Lower Upper  
284 100  
142 0.0 29.1 43.7#  
249 28.0 27.9 41.9



#20  
Pentachlorophenol  
Concen: 0.45 ng  
RT: 17.26 min Scan# 1140  
Delta R.T. 0.00 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

Tgt Ion: 266 Resp: 366  
Ion Ratio Lower Upper  
266 100  
268 78.1 62.5 93.7  
264 68.2 57.2 85.8





#21

Phenanthrene

Concen: 0.52 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

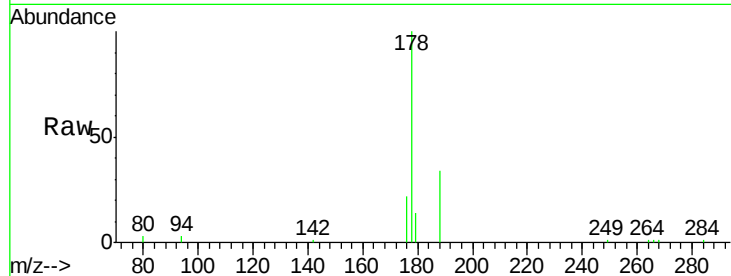
Tgt Ion:178 Resp: 9925

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

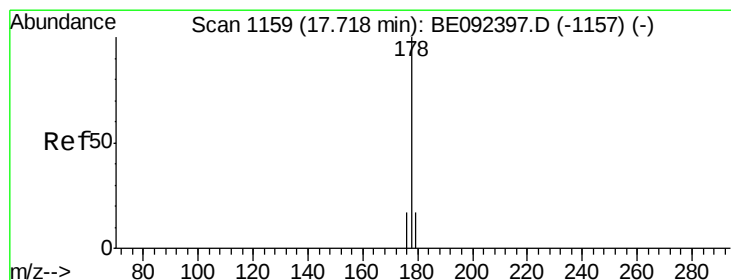
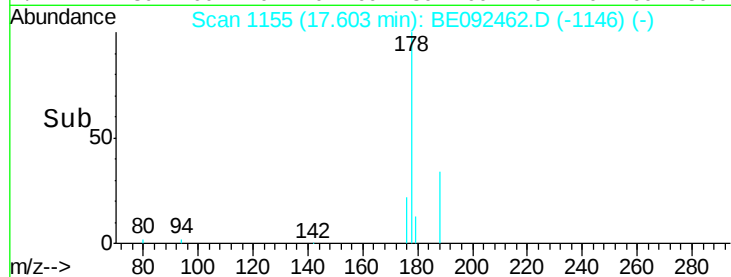
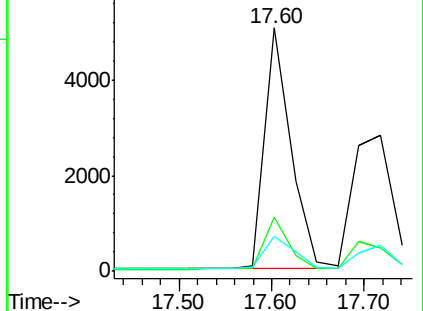
179 15.6 16.0 24.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#22

Anthracene

Concen: 0.53 ng

RT: 17.60 min Scan# 1155

Delta R.T. -0.09 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

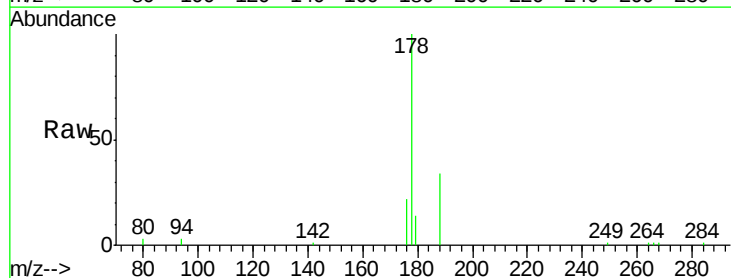
Tgt Ion:178 Resp: 9801

Ion Ratio Lower Upper

178 100

176 20.0 15.0 22.4

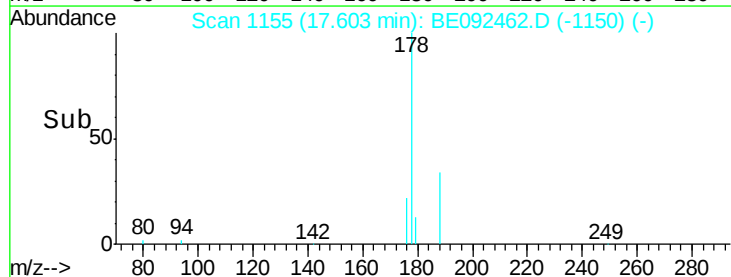
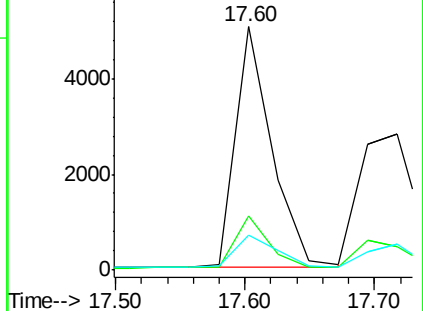
179 14.6 12.2 18.2

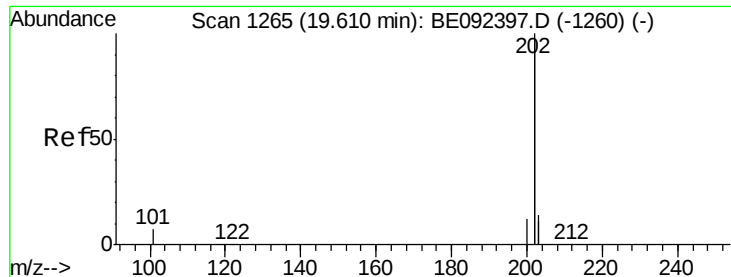


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.46 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

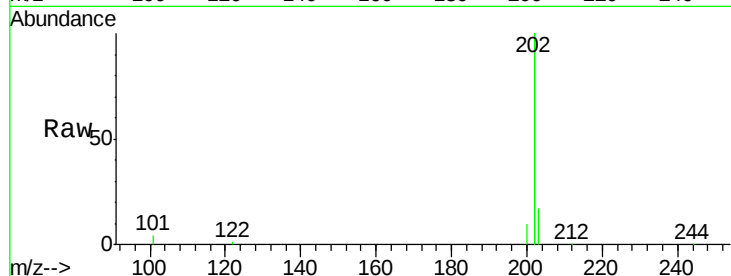
Tgt Ion:202 Resp: 42160

Ion Ratio Lower Upper

202 100

101 2.7 2.2 3.4

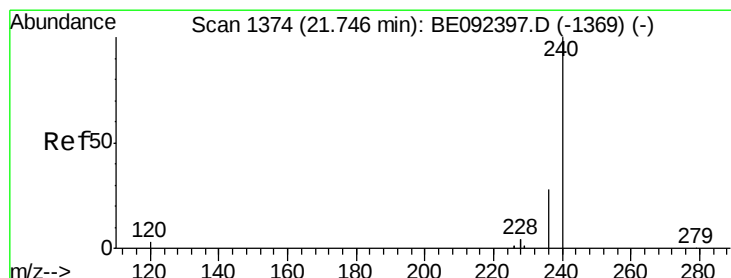
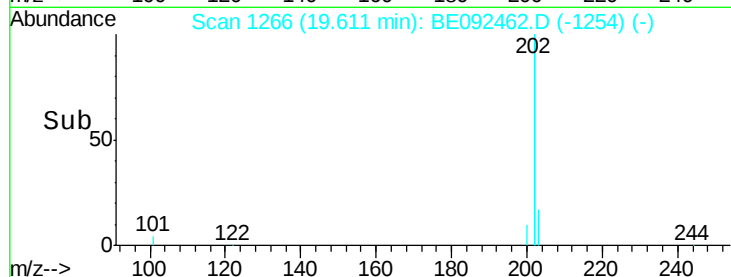
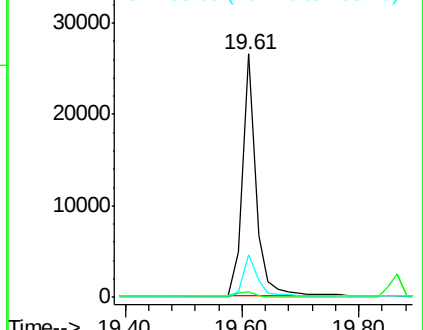
203 17.4 13.7 20.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.00 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

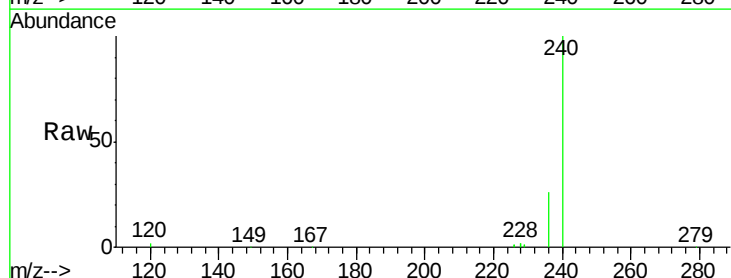
Tgt Ion:240 Resp: 118678

Ion Ratio Lower Upper

240 100

120 1.6 2.6 4.0#

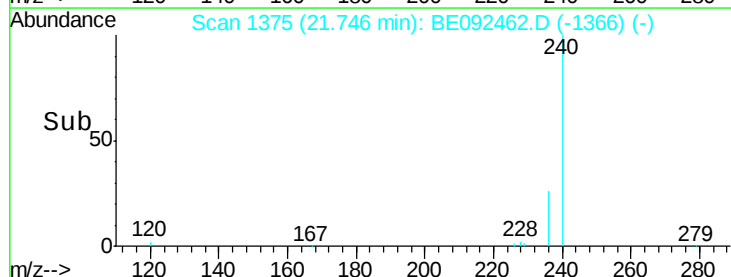
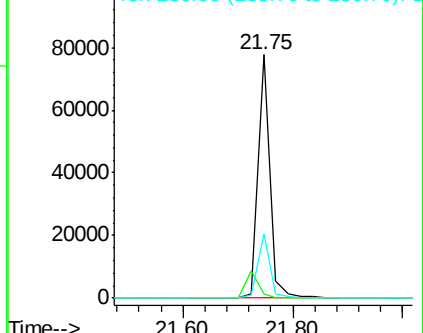
236 26.5 24.6 37.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

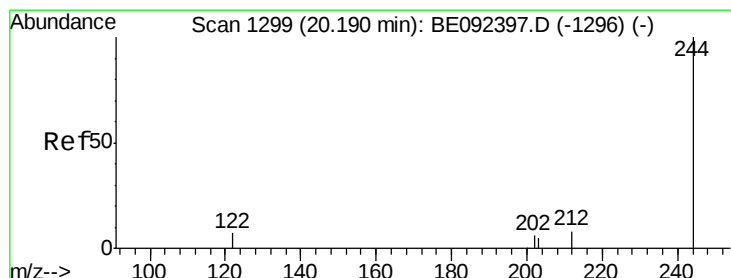
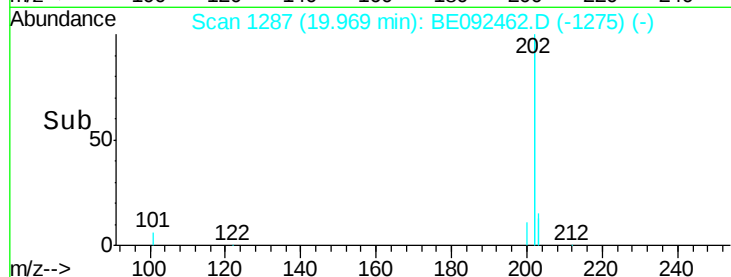
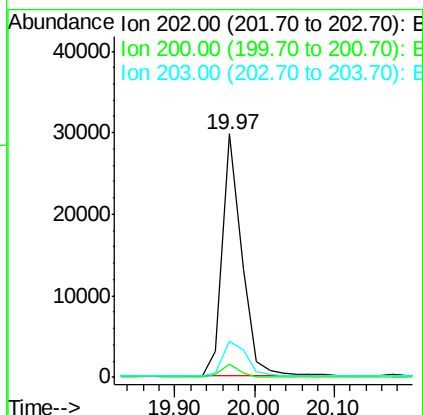
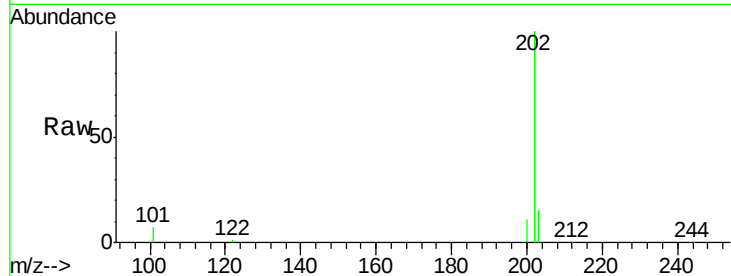




#25  
 Pyrene  
 Concen: 0.49 ng  
 RT: 19.97 min Scan# 1287  
 Delta R.T. 0.00 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

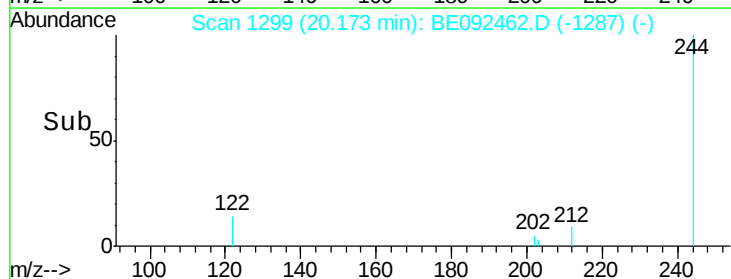
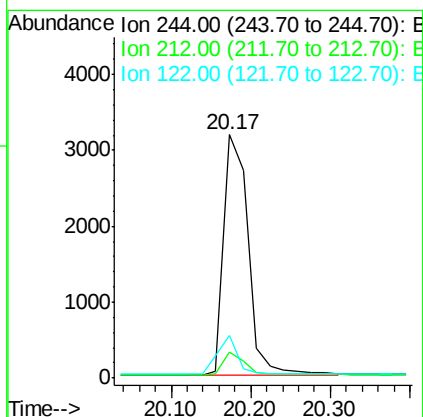
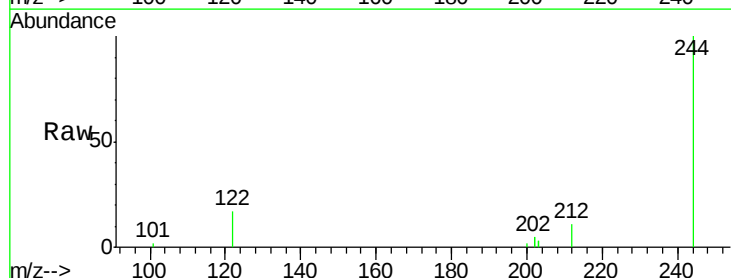
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTCCCC0.4EC

Tgt Ion: 202 Resp: 49928  
 Ion Ratio Lower Upper  
 202 100  
 200 5.2 4.2 6.4  
 203 17.0 13.9 20.9



#26  
 Terphenyl-d14  
 Concen: 0.45 ng  
 RT: 20.17 min Scan# 1299  
 Delta R.T. 0.00 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

Tgt Ion: 244 Resp: 6664  
 Ion Ratio Lower Upper  
 244 100  
 212 10.9 6.7 10.1#  
 122 17.3 3.6 5.4#

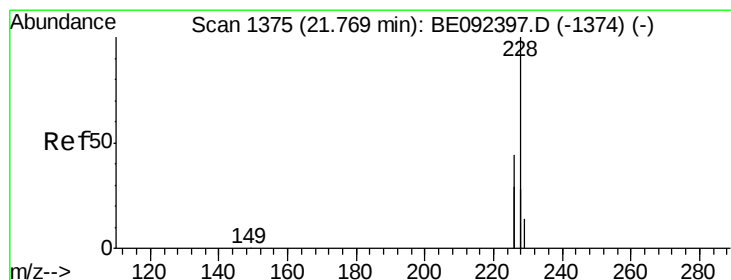
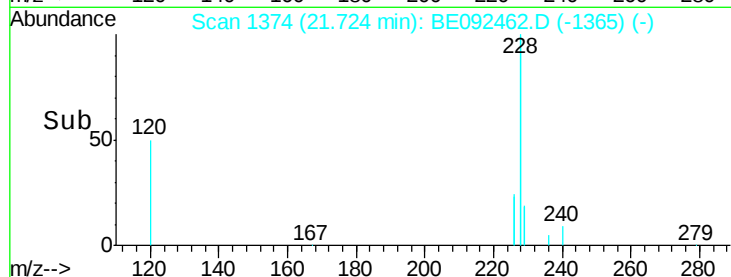
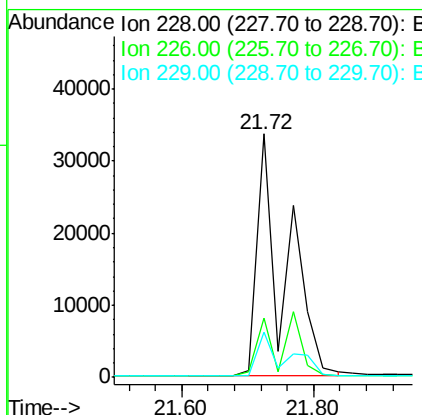
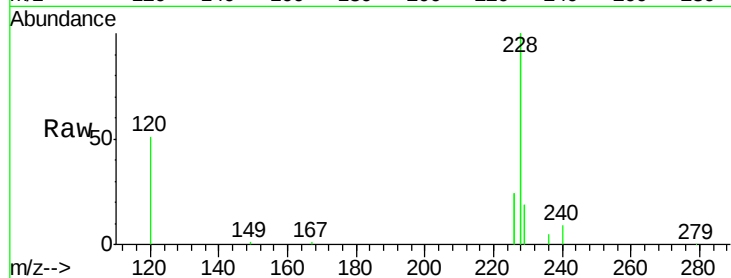




#27  
Benzo(a)anthracene  
Concen: 0.85 ng  
RT: 21.72 min Scan# 1374  
Delta R.T. 0.00 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

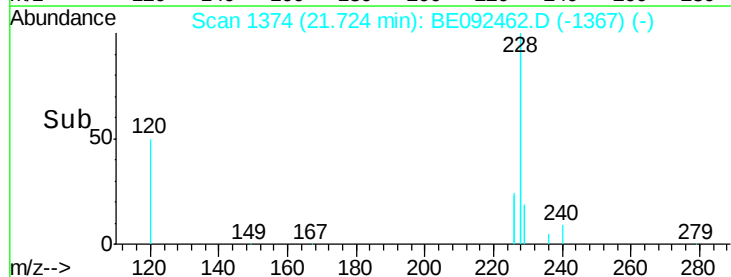
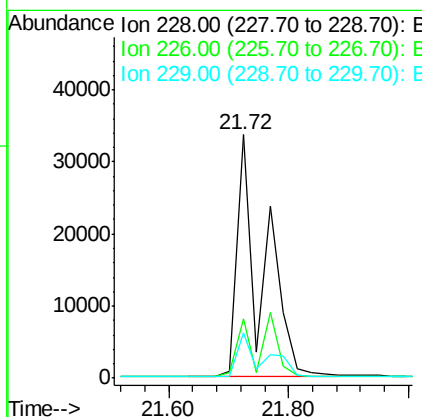
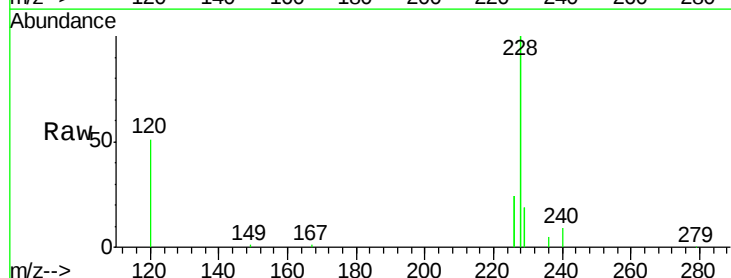
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

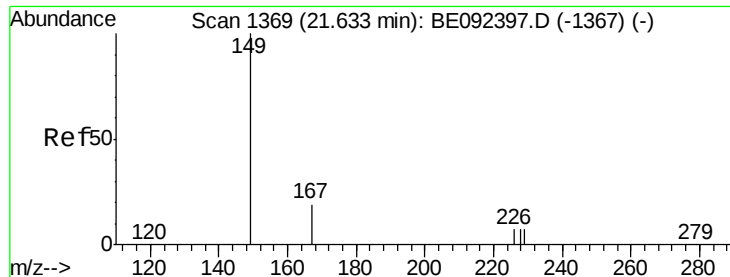
Tgt Ion:228 Resp: 97808  
Ion Ratio Lower Upper  
228 100  
226 24.4 23.6 35.4  
229 18.8 13.3 19.9



#28  
Chrysene  
Concen: 0.93 ng  
RT: 21.72 min Scan# 1374  
Delta R.T. -0.04 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

Tgt Ion:228 Resp: 98598  
Ion Ratio Lower Upper  
228 100  
226 24.4 36.3 54.5#  
229 18.8 10.6 16.0#

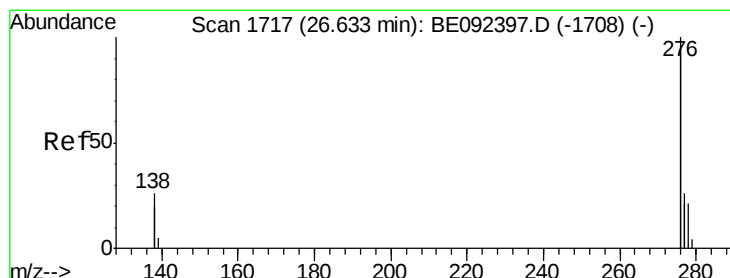
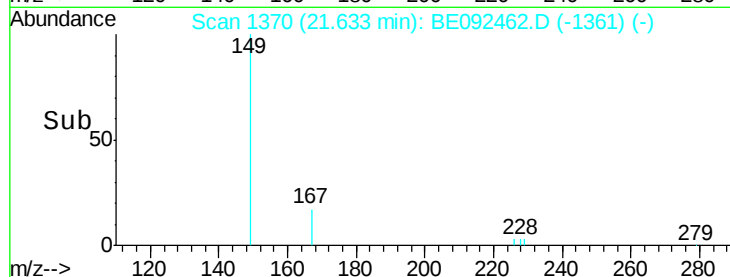
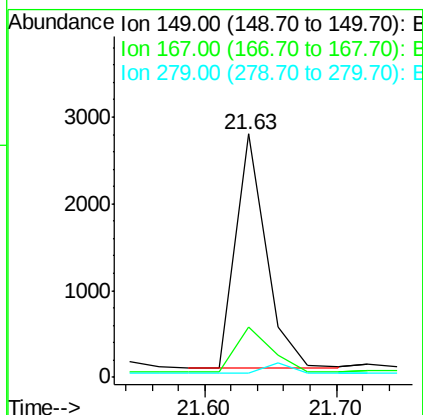
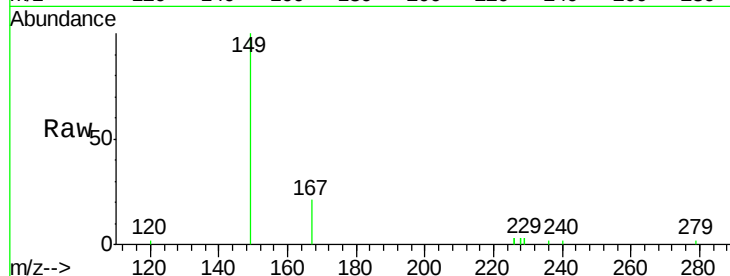




#29  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.44 ng  
 RT: 21.63 min Scan# 1370  
 Delta R.T. 0.00 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

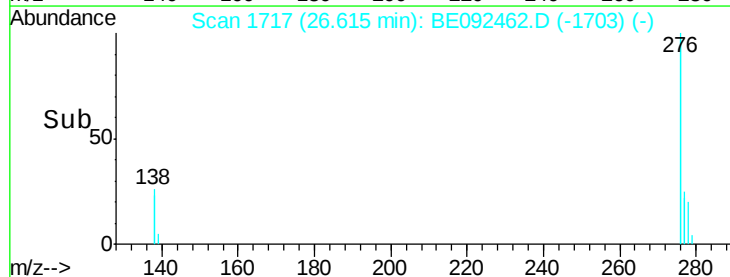
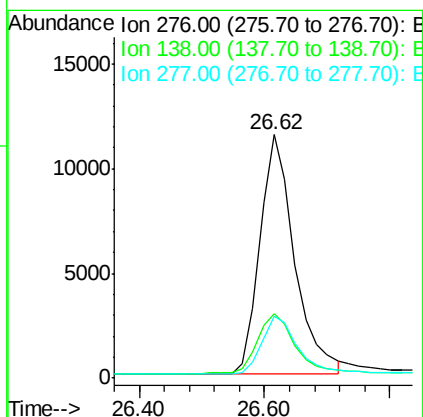
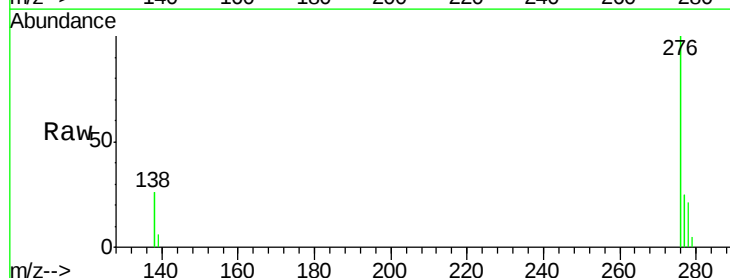
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

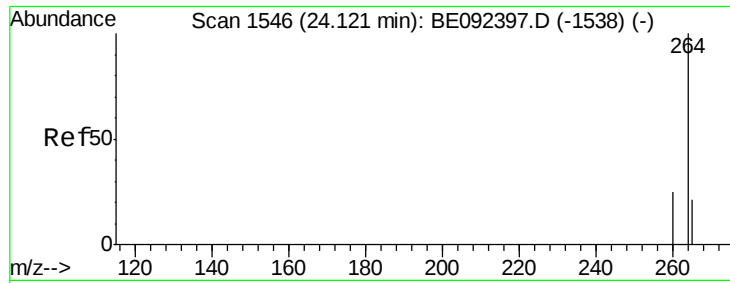
Tgt Ion:149 Resp: 4332  
 Ion Ratio Lower Upper  
 149 100  
 167 22.5 16.0 24.0  
 279 0.0 16.0 24.0#



#30  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.40 ng  
 RT: 26.62 min Scan# 1717  
 Delta R.T. 0.03 min  
 Lab File: BE092462.D  
 Acq: 17 Oct 2016 20:59

Tgt Ion:276 Resp: 44461  
 Ion Ratio Lower Upper  
 276 100  
 138 27.2 20.3 30.5  
 277 24.7 19.7 29.5

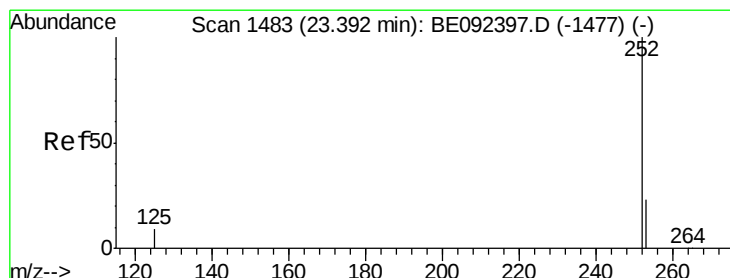
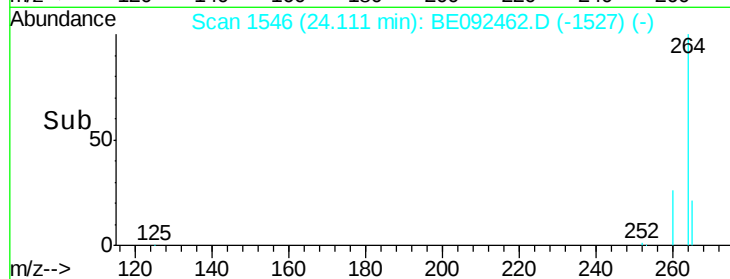
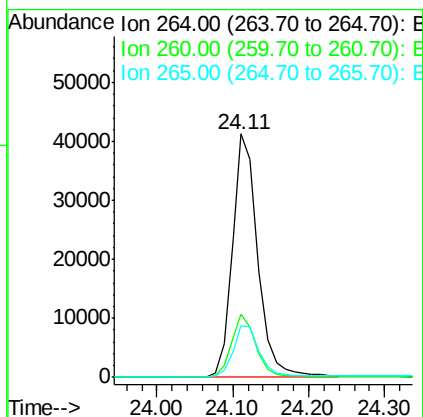
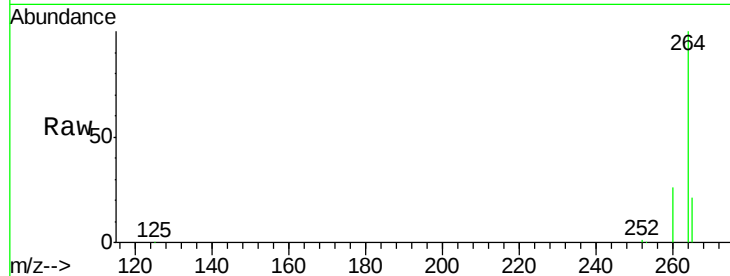




#31  
Perylene-d12  
Concen: 5.00 ng  
RT: 24.11 min Scan# 1546  
Delta R.T. 0.02 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

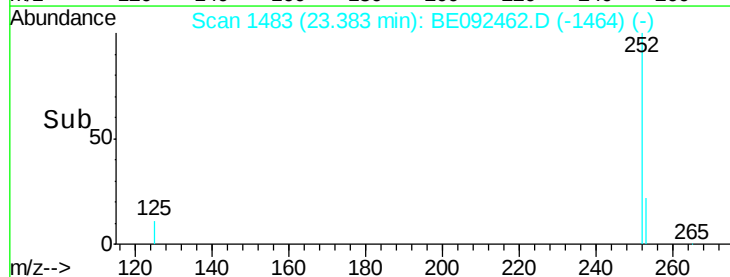
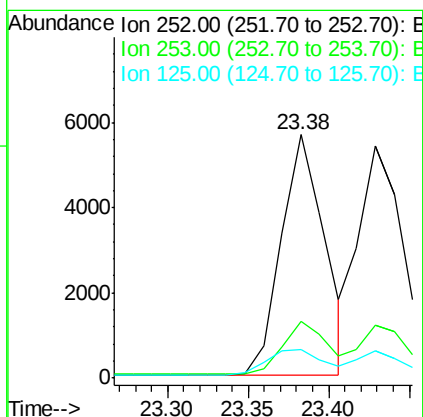
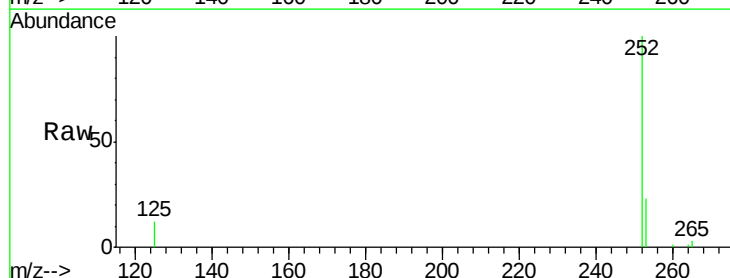
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 264 Resp: 96235  
Ion Ratio Lower Upper  
264 100  
260 26.1 20.1 30.1  
265 21.2 17.9 26.9



#32  
Benzo(b)fluoranthene  
Concen: 0.46 ng  
RT: 23.38 min Scan# 1483  
Delta R.T. 0.02 min  
Lab File: BE092462.D  
Acq: 17 Oct 2016 20:59

Tgt Ion: 252 Resp: 10639  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.7 28.1  
125 11.9 10.5 15.7





#33

Benzo(k)fluoranthene

Concen: 0.45 ng

RT: 23.43 min Scan# 1487

Delta R.T. 0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

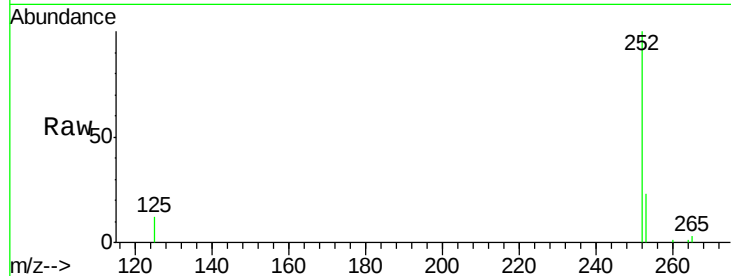
Tgt Ion:252 Resp: 11052

Ion Ratio Lower Upper

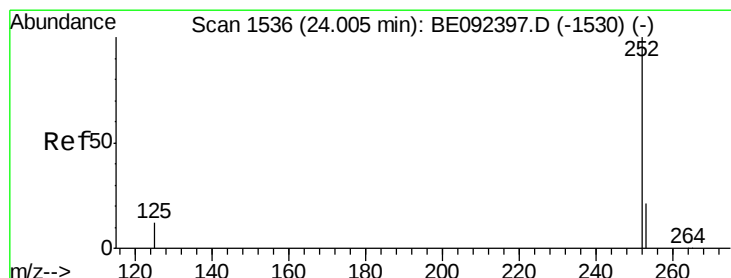
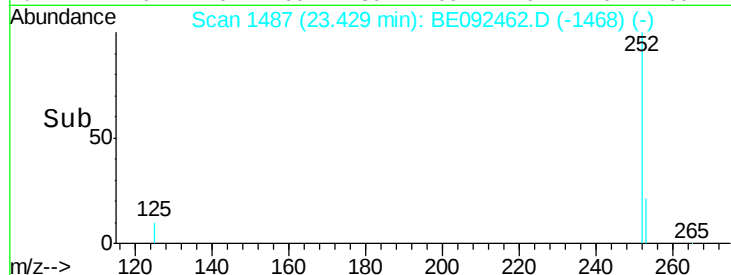
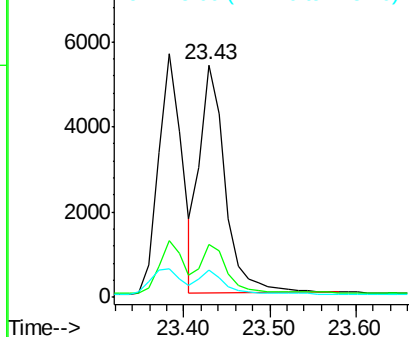
252 100

253 22.6 20.3 30.5

125 11.7 9.6 14.4



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#34

Benzo(a)pyrene

Concen: 0.45 ng

RT: 24.01 min Scan# 1537

Delta R.T. 0.02 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

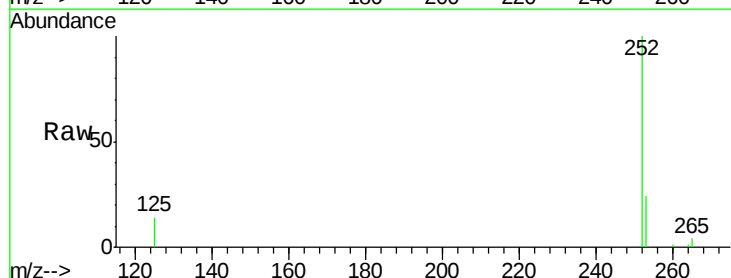
Tgt Ion:252 Resp: 10233

Ion Ratio Lower Upper

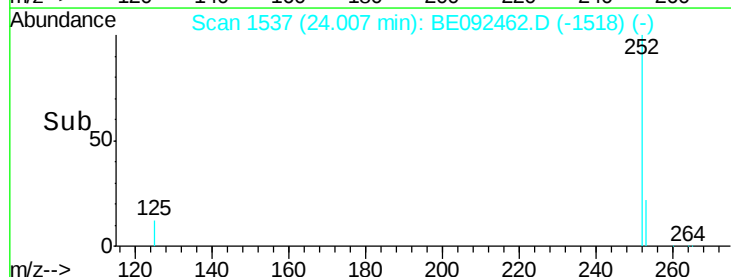
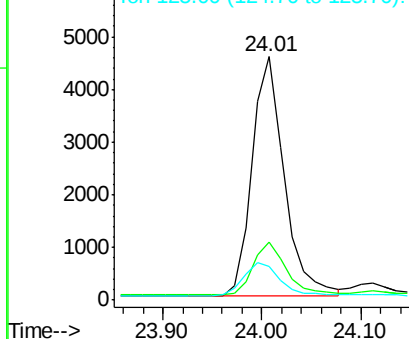
252 100

253 23.7 19.0 28.6

125 13.6 11.8 17.8



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#35

Dibenzo(a,h)anthracene

Concen: 0.43 ng

RT: 26.65 min Scan# 1719

Delta R.T. 0.05 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

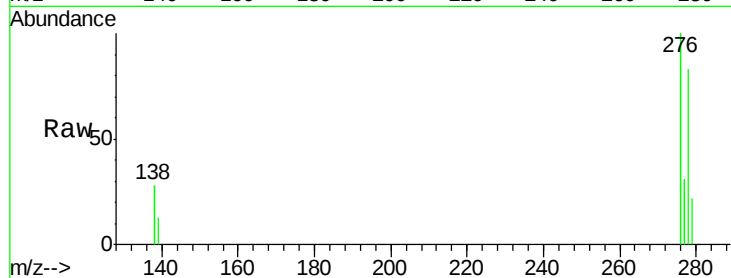
Tgt Ion: 278 Resp: 9005

Ion Ratio Lower Upper

278 100

139 16.1 13.8 20.8

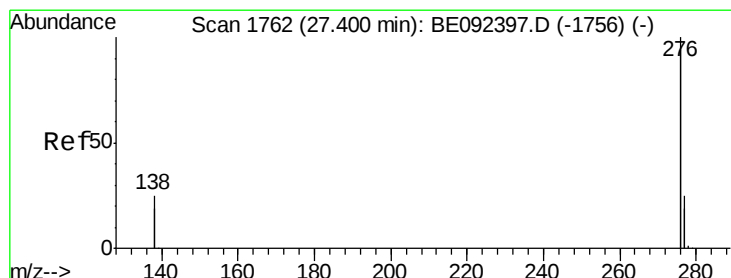
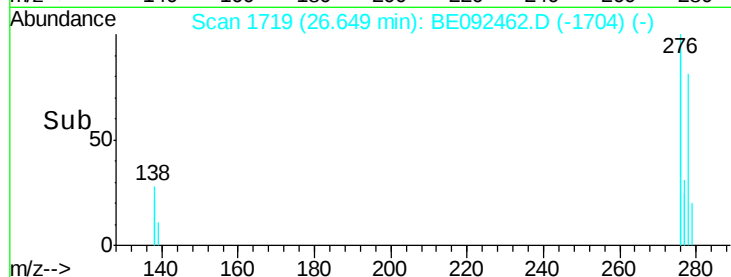
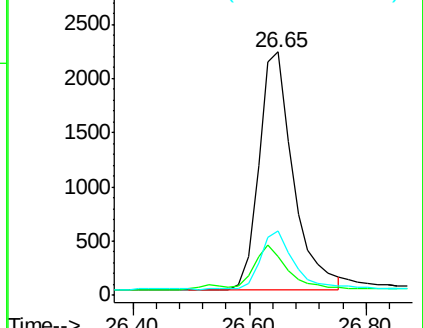
279 26.3 21.4 32.2



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#36

Benzo(g,h,i)perylene

Concen: 0.43 ng

RT: 27.38 min Scan# 1762

Delta R.T. 0.03 min

Lab File: BE092462.D

Acq: 17 Oct 2016 20:59

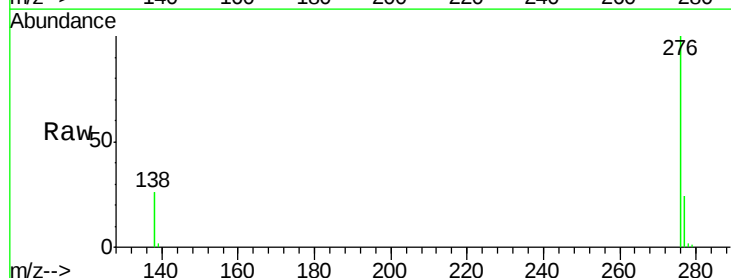
Tgt Ion: 276 Resp: 38548

Ion Ratio Lower Upper

276 100

277 24.2 19.8 29.8

138 25.6 19.8 29.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

